

Science – Grade 2

The focus for second grade students is on analyzing collected data over a period of time to make predictions and understand changes. Changes vary in rate, scale, and pattern, including trends and cycles. Changes in systems can be measured. Guide student learning to continue to emphasize the unifying concepts previously introduced, including evidence, explanation, measurement, order, and organization as well as the introduction at grade two of change. The strands provide a context for teaching the content goals.

Strands: Nature of Science, Science as Inquiry, Science and Technology,
Science in Personal and Social Perspectives

COMPETENCY GOAL 1: The learner will conduct investigations and build an understanding of animal life cycles.

Objectives

- 1.01 Describe the life cycle of animals including:
 - Birth.
 - Developing into an adult.
 - Reproducing.
 - Aging and death.
- 1.02 Observe that insects need food, air and space to grow.
- 1.03 Observe the different stages of an insect life cycle.
- 1.04 Compare and contrast life cycles of other animals such as mealworms, ladybugs, crickets, guppies or frogs.

COMPETENCY GOAL 2: The learner will conduct investigations and use appropriate tools to build an understanding of the changes in weather.

Objectives

- 2.01 Investigate and describe how moving air interacts with objects.
- 2.02 Observe the force of air pressure pushing on objects.
- 2.03 Describe weather using quantitative measures of:
 - Temperature.
 - Wind direction.
 - Wind speed.
 - Precipitation.
- 2.04 Identify and use common tools to measure weather:
 - Wind vane and anemometer.
 - Thermometer.
 - Rain gauge.
- 2.05 Discuss and determine how energy from the sun warms the land, air and water.
- 2.06 Observe and record weather changes over time and relate to time of day and time of year.